

What is claimed is:

1. A back light module for a liquid crystal display having a liquid crystal panel comprising:

a first frame;

a second frame detachable coupling with the first frame;

6 a plurality of lamps disposed in the second frame for transmitting light; and

a first optical component disposed on the first frame, wherein the first frame is disposed between the second frame and the liquid crystal panel.

2. The back light module as claimed in claim 1, further comprises:

a neck protrusion disposed on one of the first frame and the second frame; and

12 a neck groove paired with the neck protrusion and disposed on the other one of the first frame and the second frame;

wherein the first frame and the second frame are snapped with and slidable from each other by means of the neck protrusion and the neck groove.

3. The back light module as claimed in claim 2, wherein the neck protrusion and the neck groove are dovetailed in shape.

18 4. The back light module as claimed in claim 2, wherein each of the neck protrusion and the neck groove is provided with a hemispheric portion and a neck portion.

5. The back light module as claimed in claim 1, wherein the first optical component comprises a plurality of optical films and a diffuser plate.

6. The back light module as claimed in claim 5, wherein the optical films comprises a prism film.

24 7. The back light module as claimed in claim 5, wherein the optical films comprises a diffuser film.

8. The back light module as claimed in claim 1, wherein the first frame further comprises a first slot for receiving the first optical component.

9. The back light module as claimed in claim 1, wherein the second frame further comprises a second optical component.

10. The back light module as claimed in claim 9, wherein the second frame further comprises a second slot for receiving the second optical component.

11. The back light module as claimed in claim 9, wherein the second optical
6 component comprises a diffuser plate.

12. A liquid crystal display comprising:

a liquid crystal panel for displaying images;

a first frame receiving the liquid crystal panel;

a second frame detachable coupling with the first frame, and the second frame having a plurality of lamps for transmitting light to the liquid crystal panel; and

12 a first optical component disposed on the first frame, wherein the first frame is disposed between the second frame and the liquid crystal panel.

13. The liquid crystal display as claimed in claim 12, further comprises:

a neck protrusion disposed on one of the first frame and the second frame; and

a neck groove paired with the neck protrusion and disposed on the other one of the first frame and the second frame;

18 wherein the first frame and the second frame are snapped with and slidable from each other by means of the neck protrusion and the neck groove.

14. The liquid crystal display as claimed in claim 13, wherein the neck protrusion and the neck groove are dovetailed in shape.

15. The liquid crystal display as claimed in claim 13, wherein each of the neck protrusion and the neck groove is provided with a hemispheric portion and a neck
24 portion.

16. The liquid crystal display as claimed in claim 12, wherein the first optical component comprises a plurality of optical films and a diffuser plate.

17. The liquid crystal display as claimed in claim 12, wherein the first frame further comprises a first slot for receiving the first optical component.

18. The liquid crystal display as claimed in claim 12, wherein the second frame further comprises a second optical component.

19. The liquid crystal display as claimed in claim 18, wherein the second frame further comprises a second slot for receiving the second optical component.